

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/586,045
				§371 Date	June 12, 2007
				First Named Inventor	SOHN, Jung-Hoon
				Art Unit	1632
				Examiner Name	To be assigned
Sheet	1	of	1	Attorney Docket Number	2472.0010000/EKS/BNC

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	US1	5,037,760	08/06/1991	Smith <i>et al.</i>	
	US2	5,536,637	07/16/1996	Jacobs	
	US3	5,952,171	09/14/1999	McCarthy <i>et al.</i>	
	US4	6,150,098	11/21/2000	Zhang <i>et al.</i>	
	US5	6,228,590 B1	05/08/2001	Baker	
	US6	2002/0127557 A1	09/12/2002	Tan <i>et al.</i>	
	US7	6,548,633 B1	04/15/2003	Edwards <i>et al.</i>	
	US8	2004/0110939 A1	06/10/2004	Edwards <i>et al.</i>	
	US9	7,029,842	04/18/2006	Duffner <i>et al.</i>	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	FP1	WO 97/40146 A1	10/30/1997	Genetics Institute, Inc.		
	FP2	WO 99/49028 A1	09/30/1999	Genentech, Inc.		
	FP3	WO 01/00806 A2	01/04/2001	Genset		
	FP4	WO 01/77315 A1	10/18/2001	Novozymes A/S		
	FP5	EP 1 170 366 A1	01/09/2002	Genetics Institute, Inc.		
	FP6	WO 02/072821 A2	09/19/2002	Incyte Genomics, Inc.		
	FP7	WO 2007/015178 A2	02/08/2007	Korea Research Institute of Bioscience and Biotechnology		

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	NPL1	Baldari, C., <i>et al.</i> , "Differential stability of human interleukin 1 beta fragments expressed in yeast," Protein Eng. 1:433-437, JRL Press Limited (1987)	
	NPL2	Broekhuijsen, M.P., <i>et al.</i> , "Secretion of heterologous proteins by <i>Aspergillus niger</i> : Production of active human interleukin-6 in a protease-deficient mutant by KEX2-like processing of a glucoamylase-hIL6 fusion protein," <i>J Biotechnol.</i> 31:135-145, Elsevier Science Publishers B.V. (November 1993)	
	NPL3	Contreras, R., <i>et al.</i> , "Efficient KEX2-like Processing of a Glucoamylase-Interleukin-6 Fusion Protein by <i>Aspergillus Nidulans</i> and Secretion of Mature Interleukin-6," <i>Bio/Technology (N.Y.)</i> 9:378-381, Nature Pub. Co. (April 1991)	
	NPL4	Crosier, P.S., <i>et al.</i> , "In Situ Hybridization Screen in Zebrafish for the Selection of Genes Encoding Secreted Proteins," <i>Developmental Dynamics</i> 222:637-644, Wiley-Liss, Inc. (2001)	
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	NPL6	Dorner, A.J., <i>et al.</i> , "Reduction of Endogenous GRP78 Levels Improves Secretion of a Heterologous Protein in CHO Cells," <i>Molecular and Cellular Biology</i> 8:4063-4070, American Society for Microbiology (1988)	
	NPL7	Downing, K.J., <i>et al.</i> , <i>Staphylococcus aureus</i> nuclease is a useful secretion reporter for mycobacteria," <i>Gene</i> 239:293-299, Elscience Science B.V. (1999)	
	NPL8	Eckart, M.R. and Bussineau, C.M., "Quality and authenticity of heterologous proteins synthesized in yeast," <i>Curr Opin Biotechnol.</i> 7:525-530, Current Biology Ltd. (October 1996)	
	NPL9	Ferguson, D.A., <i>et al.</i> , "Selective Identification of Secreted and Transmembrane Breast Cancer Markers using <i>Escherichia coli</i> Ampicillin Secretion Trap," <i>Cancer Res</i> 65:8209-8217, American Association for Cancer Research (2005)	
	NPL10	Galliciotti, G., <i>et al.</i> , "Signal-sequence Trap in Mammalian and Yeast Cells: A Comparison," <i>J. Membrane Biol.</i> 183:175-182, Springer-Verlag (2001)	

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	NPL11	Goo, J.H., <i>et al.</i> , "Selection of <i>Arabidopsis</i> genes encoding secreted and plasma membrane proteins," <i>Plant Molecular Biology</i> 41:415-423, Kluwer Academic Publishers (1999)		
	NPL12	Gouka, R.J., <i>et al.</i> , "Efficient production of secreted proteins by <i>Aspergillus</i> : progress, limitations and prospects," <i>Appl Microbiol Biotechnol.</i> 47:1-11, Springer-Verlag (January 1997)		
	NPL13	Harmsen, M.M., <i>et al.</i> , "Overexpression of binding protein and disruption of the <i>PMRI</i> gene synergistically stimulate secretion of bovine prochymosin but not plant Thaumatin in yeast," <i>Appl Microbiol Biotechnol.</i> 46:365-370, (November 1996)		
	NPL14	Hayano, T., <i>et al.</i> , "Protein disulfide isomerase mutant lacking its isomerase activity accelerates protein folding in the cell," <i>FEBS Lett.</i> 377:505-511, Federation of European Biochemical Societies (December 1995)		
	NPL15	Hsu, T.-A., <i>et al.</i> , "Effects of Co-expressing Chaperone BiP on Functional Antibody Production in the Baculovirus System," <i>Protein Expr Purif.</i> 5:595-603, Academic press, Inc. (December 1994)		
	NPL16	Jacobs, K.A., <i>et al.</i> , "A genetic selection for isolating cDNAs encoding secreted proteins," <i>Gene</i> 198:289-296, Elsevier Science B.V. (1997)		
	NPL17	Jeenes, D.J., <i>et al.</i> , "A truncated glucoamylase gene fusion for heterologous protein secretion from <i>Aspergillus niger</i> ," <i>FEMS Microbiol Lett.</i> 107:267-272, Federation of European Microbiological Societies (March 1993)		
	NPL18	Kjeldsen, T., <i>et al.</i> , "Prepro-Leaders Lacking N-linked Glycosylation for Secretory Expression in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Protein Expr Purif.</i> 14:309-316, Academic Press (December 1998)		
	NPL19	Kjeldsen, T., <i>et al.</i> , "Synthetic Leaders with Potential BiP Binding Mediate High-Yield Secretion of Correctly Folded Insulin Precursors from <i>Saccharomyces cerevisiae</i> ," <i>Protein Expr Purif.</i> 9:331-336, Academic Press (April 1997)		
	NPL20	Klein, R.D., <i>et al.</i> , "Selection for genes encoding secreted proteins and receptors," <i>Proc. Natl. Acad. Sci. USA</i> 93:7108-7113, National Academy of Sciences (July 1996)		

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	NPL21	Lee, J., <i>et al.</i> , "Novel Secretion System of a Recombinant <i>Saccharomyces cerevisiae</i> Using an N-terminus Residue of Human IL-1 β as Secretion Enhancer," <i>Biotechnol. Prog.</i> 15:884-890, American Chemical Society and American Institute of Chemical Engineers (1999)		
	NPL22	Lim, E.M., <i>et al.</i> , "Identification of <i>Mycobacterium tuberculosis</i> DNA Sequences Encoding Exported Proteins by Using <i>phoA</i> Gene Fusions," <i>J. Bacteriol.</i> 177:59-65, American Society for Microbiology (January 1995)		
	NPL23	MacConaill, L.E., <i>et al.</i> , Investigation of Protein Export in <i>Bifidobacterium breve</i> UCC2003," <i>Appl. Environ. Microbiol.</i> 69:6994-7001, American Society for Microbiology (December 2003)		
	NPL24	Makrides, S.C., "Strategies for Achieving High-Level Expression of Genes in <i>Escherichia coli</i> ," <i>Microbiological Reviews</i> 60:512-538, American Society for Microbiology (1996)		
	NPL25	Monteoliva, L., <i>et al.</i> , "Large-Scale Identification of Putative Exported Proteins in <i>Candida albicans</i> by Genetic Selection," <i>Eukaryotic Cell</i> 1:514-525, American Society for Microbiology (August 2002)		
	NPL26	Muesch, A., <i>et al.</i> , "A novel pathway for secretory proteins?" <i>TIBS</i> 15:86-88, Elsevier Science Publishers Ltd. (UK)(March 1990)		
	NPL27	Roberts, I.N., <i>et al.</i> , "Heterologous gene expression in <i>Aspergillus niger</i> : a glucoamylase-porcine pancreatic phospholipase A ₂ fusion protein is secreted and processed to yield mature enzyme," <i>Gene</i> 122:155-161, Elsevier Science Publishers B.V. (December 1992)		
	NPL28	Robinson, A.S., <i>et al.</i> , "Protein Disulfide Isomerase Overexpression Increases Secretion of Foreign Proteins in <i>Saccharomyces cerevisiae</i> ," <i>Bio/Technology (NY)</i> 12:381-384, Nature Pub. Co. (April 1994)		
	NPL29	Robinson, A.S., <i>et al.</i> , "Reduction of BiP Levels Decreases Heterologous Protein Secretion in <i>Saccharomyces cerevisiae</i> ," <i>J. Biol. Chem.</i> 271:10017-10022, American Society for Biochemistry and Molecular Biology (1996)		
	NPL30	Sagt, C.M.J., <i>et al.</i> , "Introduction of an N-Glycosylation Site Increases Secretion of Heterologous Proteins in Yeasts," <i>Applied and Environmental Microbiology</i> 66:4940-4944, American Society for Microbiology (2000)		

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	NPL31	Schultz, L.D., <i>et al.</i> , "Using Molecular Genetics to Improve the Production of Recombinant Proteins by the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Ann NY Acad Sci.</i> 721:148-157, New York Academy of Sciences (May 1994)	
	NPL32	Surpili, M.J., <i>et al.</i> , "A yeast-based model system for cloning secreted and membrane proteins," <i>An Acad Bras Cienc</i> 74:599-608, Academia Brasileira De Ciencias (2002)	
	NPL33	Takahashi, S., <i>et al.</i> , "Function of the prosequence for in vivo folding and secretion of active <i>Rhizopus oryzae</i> lipase in <i>Saccharomyces cerevisiae</i> ," <i>Appl Microbiol Biotechnol.</i> 55:454-462, Springer Verlag (May 2001)	
	NPL34	Tan, N.S., <i>et al.</i> , "Engineering a novel secretion signal for cross-host recombinant protein expression," <i>Protein Eng.</i> 15:337-345, Oxford University Press (2002)	
	NPL35	Wang, H. and Ward, M., "Molecular characterization of a PDI-related gene <i>prpA</i> in <i>Aspergillus niger</i> var. <i>awamori</i> ," <i>Curr Genet</i> 37:57-64, Springer-Verlag (January 2000)	
	NPL36	Ward, P.P., <i>et al.</i> , "A system for production of commercial quantities of human lactoferrin: a broad spectrum natural antibiotic," <i>Bio/Technology (NY).</i> 13:498-503, (May 1995)	
	NPL37	Ward, M., <i>et al.</i> , "Improved Production of Chymosin in <i>Aspergillus</i> by Expression as a Glucoamylase-Chymosin Fusion," <i>Bio/Technology</i> 8:435-440, Nature Pub. Co. (1990)	
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	NPL39	International Search Report for International Appl. No. PCT/KR2004/003517; Korean Intellectual Property Office, mailed April 7, 2005	
	NPL40	International Search Report for International Appl. No. PCT/IB2006/003102 (listed as FP7), Korean Intellectual Property Office, mailed March 30, 2003	

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